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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/682,630		10/01/2001	Jiang Liang	RD-29301	2277	
6147	7590	04/27/2004		EXAM	EXAMINER	
	AL ELEC	TRIC COMPANY	OLTMANS, ANDREW L			
		`RM. BLDG. K1-4A	1 59	ART UNIT	PAPER NUMBER	
SCHENE	CTADY,	NY 12301-0008		1742		

DATE MAILED: 04/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/662,630	MIYAZAKI ET AL.
Office Action Summary	Examiner	Art Unit
	Andrew L Oltmans	1742
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from o, cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 13 № 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allowa closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 35-58 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 35-58 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine	or .	
10) The drawing(s) filed on is/are: a) acc		Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	*
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892) 2) \(\sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	
Notice of Dransperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office		ratent Application (PTO-152)
	ction Summary	Part of Paper No./Mail Date 15

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DETAILED ACTION

Status of the Claims

1. Claims 35-58 remain pending in this application. As noted in the Decision mailed July 23, 2003, the petition to withdraw holding of abandonment has been granted. This Office Action is in response to the amendment and 132 declaration filed November 13, 2002. Further, this Office Action is NON-FINAL.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Reinacher et al. 3,622,310

3. Claims 35-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reinacher et al. 3,622,310 (Reinacher).

Reinacher is applied to the claims for the reasons set forth in paper No. 11, mailed July 13, 2002 in paragraph 4.

Reinacher et al. 3,622,310 in view of Selman et al. 3,640,705

4. Claims 35-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reinacher et al. 3,622,310 (Reinacher) in view of Selman et al. 3,640,705 (Selman).

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Reinacher in view of Selman is applied to the claims for the reasons set forth in paper No. 11, mailed July 13, 2002 in paragraph 5.

Response to Amendment

5. The declaration under 37 CFR 1.132 filed November 13, 2003 is insufficient to overcome the rejection of claims 35-58 based upon 35 USC 103 over Reinacher and Reinacher in view of Selman as set forth in the last Office action because:

The declaration of Mr. Melvin R. Jackson fails to provide sufficient evidence of new and unexpected results over the claimed range. The declaration explains at length what is referred to as a "comprehensive experimental program" (see e.g. page 2). The program involves the inputting of property/cost parameters into a software program and achieving a desirability function (see e.g. page 3). The range of alloy compositions that allegedly possess "the critical balance of properties required by next-generation turbine technology", which were derived by the program are shown in Figure B (page 4). Figure B also shows "three compositions outside the critical range" (page 4).

The evidence presented in sufficient for several reasons. First, the applicant is not claiming any of the properties (e.g. Hardness, Modulus, etc...) alleged as new and unexpected (see e.g. independent claims 35, 43, 44, 51, 52, 56, 57 and 58). Therefore, comparisons are merely relative and do not establish what is parameters are critical to the claimed invention. Second, the comparison between the compositions inside and outside the "critical range" do not represent a comparison with the closest prior art (i.e.

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A,

Reinacher). Third, the "comprehensive experimental program" is merely a method of optimizing properties to come up with the claimed composition. The declarant notes that Figure A shown on page 3 is "[a]n example of one particular optimization".

Optimization does not lend patentability to the claims, see MPEP 2144.05 (II):

"Generally, differences in concentration or temperature will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical. "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re

Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955)"

In this case, the software package used by the declarant is merely routine experimentation and does not lend patentability to the claims.

Because the claimed compositions are overlapping and the claimed range has not been shown to be critical, the instant claims are obvious.

Response to Arguments

- 6. Applicant's arguments filed November 13, 2002 have been fully considered but they are not persuasive.
- 7. The arguments made by applicant are not persuasive for substantially the same reasons set forth in the explanation of the declaration above in paragraph 5.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Oltmans whose telephone number is 571-272-1248. The examiner can normally be reached from 7:00 to 3:30, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew L. Oltmans
Patent Examiner
Art Unit 1742

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